BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of Work :- Detailed Estimate for Improvements of Roads and Drains at Bhadrappa layout Maruthinagara in ward no. 8, Kodigehalli sub division

Estimated Cost :- Rs 12.00 Lakhs

Sl no.	Description of item	Unit	No.	L	B/W	D/T/ H	Qty.	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (Page no 150, Item no. 19.2 of BCSR 2012-13)	Cum							
	For drain desilting		2	125.00	0.45	0.25	28.13		
			2	150.00	0.45	0.25	33.75		
			2	73.00	0.45	0.25	16.43		
							78.30	**81.00**	**6342.30**
	Basic Rate	75.00							
	Area Weightage @ 8%	6.00							
	Total	**81.00**							
2	Removing B.S. slab of Drain and stacking. (Page no 28, Item no. 5.32 of BCSR 2012-13)	Sqm							
			2	125.00		1.35	337.50		
			2	150.00		1.35	405.00		
			2	73.00		1.35	197.10		
							939.60		
			Deduct 20% missing Slabs				187.92		
			Net Qty				**751.68**	**44.47**	**33430.52**
	Basic Rate	41.18							
	Area Weightage @ 8%	3.29							
	Total	**44.47**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) (Page no 28, Item no. 5.33 of BCSR 2012-13	Sqm							
	Drain	Considering 80% of Qty vide Item no 2							
							751.68	**63.00**	**47353.13**
	Basic Rate	58.33							
	Area Weightage @ 8%	4.67							
	Total	**63.00**							
4	KSRRB 300-3. Earthwork excavation and foming in embankment by manual means in **Hard Soil** with initial lead upto 15 m. and lift of 1.5m. (When earth is taken from bank cutting or from borrow pits) including breaking of clods, spreading to required line and level, forming, and cost of all labour complete as per specifications. (excluding watering and compaction of earth) MORTH Chapter 3 (Page no 150, Item no. 19.4 of BCSR 2012-13)	Cum							
			1	125.00	6.00	0.20	150.00		
			1	150.00	6.00	0.20	180.00		
			1	73.00	6.00	0.20	87.60		
							417.60	**112.32**	**46904.83**
	Basic Rate	104.00							
	Area Weightage @ 8%	8.32							
	Total	**112.32**							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (Page no 28, Item no. 5.31.1 of BCSR 12-13)	Sqm							
	7.5 cms thick	Considering20% of Qty vide Item no 2							
							187.92	**315.36**	**59262.45**
	Basic Rate	292.00							
	Area Weightage @ 8%	23.36							

	Total	**315.36**							
6	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.MORTH Specification No. 406 (Page no 167, Item no. 20.18 of BCSR 12-13)	Cum							
	For Road		1	125.00	6.00	0.15	112.50		
			1	150.00	6.00	0.15	135.00		
			1	73.00	6.00	0.15	65.70		
	For BWSSb Trench		3	90.00	0.75	0.15	30.38		
							343.58	**1059.48**	**364010.84**
	Basic Rate	981.00							
	Area Weightage @ 8%	78.48							
	Total	**1059.48**							
7	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.MORTH Specification No. 502 (Page no 171, Item no. 21.60 of BCSR 2011-12)	Sqm							
			1	125.00	6.00		750.00		
			1	150.00	6.00		900.00		
			1	73.00	6.00		438.00		
							2088.00	**39.64**	**82759.97**
	Basic Rate	36.70							
	Area Weightage @ 8%	2.94							
	Total	**39.64**							
8	KSRRB M500-18. Providing and laying semi dense bituminous concrete25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 complete in all respects as per specifications **25-30 mm compacted thickness with 5% bitumen 80/100 (Grading II)** (Page no 175, Item no. 21.20.1 of BCSR 2012-13)	Cum							
			1	125.00	6.00	0.025	18.75		
			1	150.00	6.00	0.025	22.50		
			1	73.00	6.00	0.025	10.95		
							52.20	**8829.00**	**460873.80**
	Basic Rate	8175.00							
	Area Weightage @ 8%	654.00							
	Total	**8829.00**							
9	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound2.5 mm thick including reflectorising glass beads at 250 gms per sqmarea, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.MORTH Specification No. 803 (Page no 194, Item no. 24.15 of BCSR 2012-13)	Sqm							
			2.0	125.00	0.10		25.00		
			2x2	150.00	0.10		60.00		
							85.00	**429.84**	**36536.40**
	Basic Rate	398.00							

	Area Weightage @ 8%	31.84							
	Total	429.84							
10	KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, die- cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications (Page no 198, Item no. 24.41 of BCSR 2012-13)	Nos					20.00	289.44	5788.80
	Basic Rate	268.00							
	Area Weightage @ 8%	21.44							
	Total	289.44							
11	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of high intensity grade sheeting vide clause 800.1.3, fixed over Aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications. (Page no 192 Item no. 24.2.6 of BCSR 2012-13)	Nos					6.00	3205.44	19232.64
	60 x 60 cm square								
	Basic Rate	2968.00							
	Area Weightage @ 8%	237.44							
	Total	3205.44							
12	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum.KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.MORTH Chapter 1 (Page no 197, Item no. 24.41 of BCSR 2011-12)	Cum					484.50	72.30	35027.41
	Basic Rate	62.20							
	Area Weightage @ 8%	4.98							
	Lead and lift charges for 2 kms Rs2.00 x 1.28 ton/km x 2 kms	5.12							
	Total	72.30							
13	Miscellaneous & Unforeseen Charges								1518.27
								Total	1200000.00

ADMINISTRATIVELY SANCTIONED FOR Rs ... Technical Sanction for Rs. 12.00 lakh ...
Rupees Twelve lakh only / Nos Twelve lakh only
Qty vide item no 1 & 4
Under POR-2012-13 / P-1271
Registered in ... No. 336/12-13 ... Subject to conditions contained enclosed memo.
enclosed memo. Sy+ No: 336 /12-13 Dt. 10-1-13
Dt 7-1-13 AE/JE EE (BTP. Div)
Estimate A/Sanctioned
10/1/2013
(Rupees Twelve Lakhs Only) AIA No 677/12-13
CERTIFICATE dated 7-1-13 Rs 12.00 lakh

1 Certified that I have personally inspected the area and prepared the estimate.
2 Certified that the work proposed in this estimate is not including in any other scheme.
3 Certified that the estimate is prepared as per 2012-13 SR of PWD.
4 This works is not split up.

Assistant Engineer

7/1/13
Joint Commissioner
(Works)
BBMP, Bangalore-02.

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

SDBC 25 MM THICK

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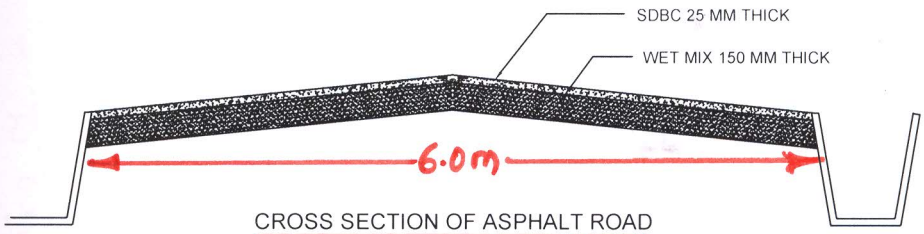
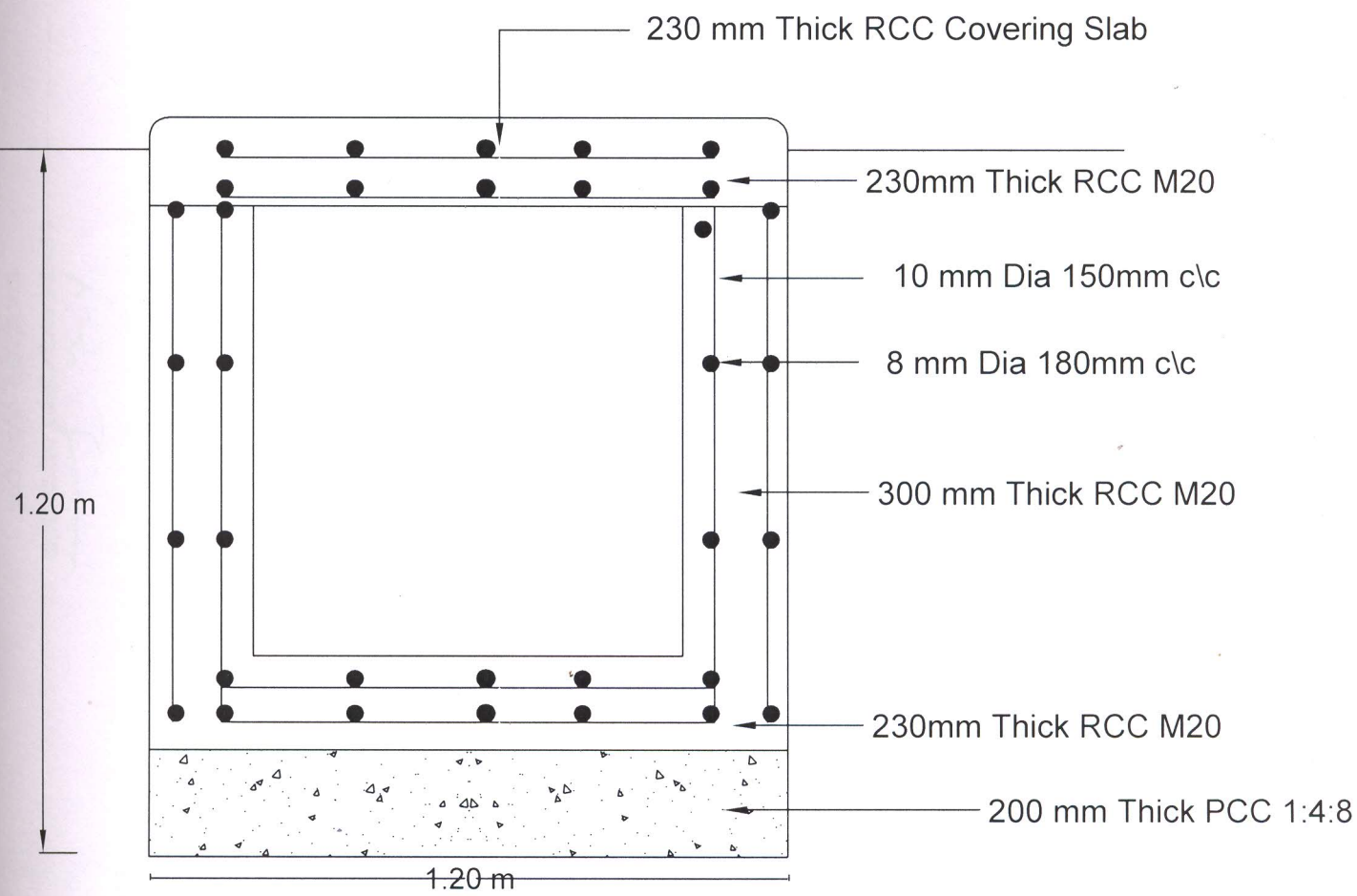
ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು – 560092



CROSS SECTION OF ASPHALT ROAD


230 mm Thick RCC Covering Slab
230mm Thick RCC M20
10 mm Dia 150mm c\c
8 mm Dia 180mm c\c
300 mm Thick RCC M20
230mm Thick RCC M20
200 mm Thick PCC 1:4:8
1.20 m
1.20 m

CROSS SECTION OF RCC CULVERT

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